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## Journal of Complexity

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### Editorial

## Guest Editors' Preface

This special issue contains fully refereed papers arising from the Third Workshop on High Dimensional Approximation (HDA 2009), held at the University of New South Wales in Sydney from February 16 to 20, 2009. The strong scientific program, with 44 talks from a mix of international leaders and young researchers, gave an outstanding overview of current research in high dimensional integration and approximation. A strong participation from Germany was helped by the inclusion of HDA 2009 in the workshop program of the DFG Priority Program 1324, "Extraction of quantifiable information from complex data". Australian support came from the ARC Centre of Excellence for the Mathematics and Statistics of Complex Systems and the Australian Mathematical Sciences Institute. The papers in this special issue give a true representation of the wide range and vitality of contemporary research in high dimensional approximation.

*The Guest Editors:*  
Markus Hegland  
Stefan Heinrich  
Ian H. Sloan